Software Engineering

Module - I

Definition of Software

Software is (1) instructions (computer programs) that when executed provide desired features, function, and performance; (2) data structures that enable the programs to adequately manipulate information, and (3) descriptive information in both hard copy and virtual forms that describes the operation and use of the programs.

Definition of Software

Software doesn't wear out.

Software is not susceptible to the environmental maladies.

It does deteriorate.

Software maintenance involve more complexity than the hardware. (Change requests, errors).

Software application Domains

- **System Software** – Compilers, Editors, File Management utilities, Operating systems, Drivers, Networking utilities, telecommunication processes)

- **Application Software** –

- **Engineering/Scientific Software** - Astronomy, Volcanology, Automotive stress analysis, Orbital dynamics, computer aided design, molecular biology, genetic analysis and meteorology.

Software application Domains

- **Embedded software** – Key pad controls, Dashboard controls, Braking systems.
- **Product-line software** – Inventory control
- **Web/Mobile application** -
- **Artificial Intelligence software** -

Software myths

- Software myths are erroneous beliefs about software and the process that is used to build it.
- Management Myths
- Customers Myths
- Practitioners Myths